

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application:

IN THE CLAIMS

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

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16. (Canceled)

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18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Currently amended): A plant expression cassette allowing ~~the~~ tissue specific expression of a gene of interest comprising ~~the~~ a promoter of ~~the~~ a gene coding for ~~the~~ protein basic globulin ~~7-S-7S~~.

30. (Currently amended): The plant expression cassette

according to claim 29, wherein said promoter has the sequence ~~reported in the annexed sequence listing as of~~ SEQ ID NO:21.

31. (Previously presented): The plant expression cassette according to claim 29, wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin ~~7-S-7S~~.

32. (Currently amended): The plant expression cassette according to claim 31, wherein said leader sequence is the sequence ~~reported as of~~ SEQ ID NO: 13.

33. (Previously presented): A recombinant DNA vector comprising a gene of interest under the control of the plant expression cassette according to claim 29.

34. (Previously presented): The vector according to claim 33 wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin ~~7-S-7S~~ and wherein said gene of interest is fused to the leader sequence.

35. (Currently amended) A plant expression cassette allowing tissue specific expression of a gene of interest comprising ~~the a~~ promoter of ~~the a~~ gene coding for protein basic globulin 7S or the β -conglycinine protein.

36. (Currently amended): The plant expression cassette according to claim 35, wherein said promoter has the sequence ~~reported in the annexed sequence listing as of~~ SEQ ID NO:22.

37. (Previously presented): The plant expression cassette according to claim 35, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

38. (Currently amended): The plant expression cassette according to claim 37, wherein said leader sequence is the sequence ~~reported as of~~ SEQ ID NO: 14.

39. (Previously presented): A recombinant DNA vector comprising a gene of interest under the control of the plant expression cassette according to claim 35.

40. (Previously presented): The vector according to claim 39 wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein and wherein said gene of interest is fused to the leader sequence.

41. (Previously presented): A vegetal cell including the vector according to claim 33.

42. (Original): A cellular aggregation obtainable from the cell according to claim 41.

43. (Original): The cellular aggregation according to claim 42, said aggregations being calluses capable of regenerating transgenic plants.

44. (Previously presented): A transgenic plant including in a tissue cell the vector according to claim 33.

45. (Original): The transgenic plant according to claim 44, wherein said tissue cell is a storage tissue cell.

46. (Previously presented): The transgenic plant according to claim 44, wherein said tissue cell is a fruit tissue cell.

47. (Previously presented): The transgenic plant according to claim 44, said plant being selected from the group consisting

of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

48. (Original): The transgenic plant according to claim 47, said plant being selected from the group consisting of soya, tobacco and rice.

49. (Previously presented): A method of using the vector according to claim 33 for the transformation of vegetal cells.

50. (Previously presented): A vegetal cell including the vector according to claim 39.

51. (Previously presented): A cellular aggregation obtainable from the cell according to claim 50.

52. (Previously presented): The cellular aggregation according to claim 51, said aggregations being calluses capable of regenerating transgenic plants.

53. (Previously presented): A transgenic plant including in a tissue cell the vector according to claim 39.

54. (Previously presented): The transgenic plant according to claim 53, wherein said tissue cell is a storage tissue cell.

55. (Previously presented): The transgenic plant according to claim 53, wherein said tissue cell is a fruit tissue cell.

56. (Previously presented): The transgenic plant according to claim 53, said plant being selected from the group consisting of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

57. (Previously presented): The transgenic plant according to claim 56, said plant being selected from the group consisting of soya, tobacco and rice.

58. (Previously presented): A method of using the vector according to claim 39 for the transformation of vegetal cells.

59. (New): A plant expression cassette allowing in-seed tissue specific expression of non-degraded human lactoferrin wherein a gene encoding the human lactoferrin is operatively linked to a regulation element of protein basic globulin 7S or to a regulation element of protein β -conglycinine.

60. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the promoter of the gene coding for the protein basic globulin 7S.

61. (New): The plant expression cassette according to claim 60, wherein said promoter has the sequence of SEQ. ID NO 21.

62. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes a leader sequence of the gene coding for the protein basic globulin 7S.

63. (New): The plant expression cassette according to claim 62 wherein said leader sequence is the sequence of SEQ. ID NO: 13.

64. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the promoter of the gene coding for the β -conglycinine protein.

65. (New): The plant expression cassette according to claim 64, wherein said promoter has the sequence of SEQ. ID NO 22.

66. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

67. (New): The plant expression cassette according to claim 66 wherein said leader sequence is the sequence of SEQ. ID NO: 14.

68. (New): The plant expression cassette of claim 59 wherein said gene encoding the human lactoferrin has the sequence of SEQ ID NO 1.

69. (New): A recombinant DNA vector comprising the plant expression cassette of claim 59.

70. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes a promoter of the gene coding for the protein basic globulin 7S.

71. (New): The recombinant DNA vector according to claim 70, wherein said promoter has the sequence of SEQ. ID NO 21.

72. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin 7S.

73. (New): The recombinant DNA vector according to claim 72 wherein said leader sequence is the sequence of SEQ. ID NO: 13.

74. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the promoter of the gene coding for the β -conglycinine protein.

75. (New): The recombinant DNA vector according to claim 16, wherein said promoter has the sequence reported in the annexed

sequence listing as SEQ. ID NO 22.

76. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

77. (New): The recombinant DNA vector according to claim 76 wherein said leader sequence is the sequence of SEQ. ID NO: 14.

78. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the gene coding for human lactoferrin having SEQ ID NO: 1.

79. (New): A method for using the vector according to claim 69 for the transformation of vegetal cells.

80. (New): A vegetal cell including the vector of claim 69.

81. (New): A cellular aggregation obtainable from cells according to claim 80.

82. (New): The cellular aggregation according to claim 81 wherein said aggregations are calluses capable of regenerating transgenic plants

83. (New): A transgenic plant, comprising the expression cassette of claim 59, said plant expressing in-seed the non-degraded protein human lactoferrin.

84. (New): The transgenic plant according to claim 83, said plant being selected from the group consisting of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

85. (New): The transgenic plant according to claim 84, said plant being selected from the group consisting of soya, tobacco and rice.

86. (New): A method of using the transgenic plant according to claim 83 for the production of non-degraded human lactoferrin.

87. (New): A method of using the transgenic plant according to claim 83 for the production of human lactoferrin flours or human lactoferrin extracts obtained from seeds of said transgenic plant.

88. (New): A method of using the transgenic plant according to claim 83 for the production of functional foods containing human lactoferrin.

89. (New): The method according to Claim 88, wherein said functional foods are selected from the group consisting of vegetal milks, fruit juices, fruit and/or vegetable homogenized foods.

90. (New): A method of using the transgenic plant of claim 83 for the production of *nutriceuticals* comprising human lactoferrin.